

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/25/01

Date Received: 10/18/01

Project: Metro Self Monitor PO# M66903

Date Extracted: 10/22/01

Date Analyzed: 10/23/01

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M66903 110103-01	0.23	0.22	0.17	0.06
Method Blank	<0.05	<0.05	<0.05	<0.05

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Project: Metro Self Monitor PO# M66903

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 110070-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.55	0.40	32 vo	0-20
Copper	mg/L (ppm)	0.43	0.44	2	0-20
Nickel	mg/L (ppm)	0.38	0.28	30 vo	0-20
Zinc	mg/L (ppm)	0.09	0.10	11	0-20

Laboratory Code: 110070-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	0.55	80	80-120
Copper	mg/L (ppm)	2	0.43	84	80-120
Nickel	mg/L (ppm)	4	0.38	85	80-120
Zinc	mg/L (ppm)	2	0.09	85	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	100	95	80-120	5
Copper	mg/L (ppm)	2	94	108	80-120	14
Nickel	mg/L (ppm)	4	93	92	80-120	1
Zinc	mg/L (ppm)	2	94	93	80-120	1

vo - The value reported fell outside the control limits established for this analyte.

110103

SAMPLE CHAIN OF CUSTODY

ME

10/18/01 AI

Send Report To GERARD A. Thompson
 Company Alaskan Copper Works
 Address 628 S. Henderson St
 City, State, ZIP Seattle WA 98107
 Phone # 206-382-8779 Fax # 206-382-4309

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME/NO. <u>metno self monitor</u>	PO # <u>m66203</u>
REMARKS	

Page # _____ of _____
TURNAROUND TIME <input type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> RUSH Rush charges authorized by: _____
SAMPLE DISPOSAL <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	OK, Cyn, 12-2				
m66203	01	10/18/01	12:30	H2O	1							✓				

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>GERARD A. Thompson</u>	<u>ACW</u>	<u>10/18/01</u>	<u>1:03 PM</u>
Received by: <u>[Signature]</u>	<u>S. Obern</u>	<u>F&B, Inc.</u>	<u>10/18/01</u>	<u>1:15 PM</u>
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

October 25, 2001

DUPLICATE COPY

INVOICE #01ACU1025-2

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor PO# M66903 - Results of testing requested by
Gerry Thompson for material submitted on October 18, 2001.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	\$ 80.00
Amount Due	\$ 80.00

FEDERAL TAX ID # (b) (6)

FRIEDMAN & BRUYA, INC.

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Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

October 25, 2001

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on October 18, 2001 from your Metro Self Monitor PO# M66903 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU1025R.DOC